

SEQUENCE LISTING

<110> Young, Paul
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 Endress, Gregory
 Augustus, Meena
 Ebner, Reinhard
 Carter, Kenneth

<120> Cancer Gene Determination and Therapeutic Screening Using
 Signature Gene Sets

<130> 689290-64

<150> U.S. 60/209,473

<151> 2000-06-05

<150> U.S. 60/209,531

<151> 2000-06-05

<150> U.S. 60/236,891

<151> 2000-09-29

<150> U.S. 60/236,842

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<150> U.S. 60/244,867

<151> 2000-11-01

<150> U.S. 60/245,084

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<160> 1067

<170> PatentIn version 3.0

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aaaaacacag	aaacccttga	gactttctgt	aaaattttgg	gatcataaaa	tatattaaaa	360
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 taagtgaggg ccccaggatc cacctgccta ggcttcccaa agtgctggga ttacaggcgt 180
 gaccacccgc gccagccaa gttttggttt cctcaactgg aggtaattt acatatttta 240
 cttatacata tgcataagta aacaaagagg gttgttttga gggtaaata aattgatgga 300
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 cagaagtaaa atccgtctgt tttccagaaa aatgtgatgt agngaattnt cattttatgt 240
 gttattttgc actcattaat gtaaatttta gatttaaaaa aatcaagttt atttgctttc 300
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tactcttact	tgtttacatg	agttaactag	aaaatggcta	caactgctaa	atgatgctta	180
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gatttaaaaa	ttttttttca	tgaacaaacc	atcagtagtt	attaaggagc	ccaagaaata	180
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ataaaaatata	tagtggtgac	ttaaaaatca	gtatgatatc	tgagactggg	tttaataaaa	300
ggaagaatca	ttgaatttga	gtactgaagt	tgaaaactag	ccatatttgg	ttataaatte	360
ctcttaaaaa	attagtagtt	tctactttgg	attnttccct	cnggatggat	ttcaccctt	420
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 cctcttaata ctttggtttt caatacagtc agtggtatag caaagactac acatacccaa 180
 cttatattta agttgcaagc acatgctgta taagctactt tttttaaaaca gtccccttgc 240
 aaactctacc ccccttaaca tcacaatagt aaacaattta gtgcatcaat cgtttaaaaa 300
 atctacagct aaacagacct aactctttca aatttatcta taacattcct ttatctgtag 360
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 ccagagcatt ccacatttga caatgaccaa aagccaaaaa atataaaata aaaataaaac 480
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 ctgaagtact gaaactgtgg cccatgtgaa aaagaggtgc aagtgcctaa gattcatgca 300
 gagcctgctg gaacagaggg tggtaggggc gggtaggtcc acacttacac accagcaggt 360
 atgctgggga aagggtcccc caggtggagt gcctgacata gggctcgctc cagagggctc 420

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aaaatc 546

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<213> Homo sapiens

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taaaatttta	atacagtatt	ctgaatacaa	gtagaatacc	actagataag	aattgtattt	180
acctaagaaa	tctatgatag	tgtgggtgga	gataaaccag	tttaggatag	ccacttcact	240
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<212> DNA

<213> Homo sapiens

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aacacacttg	tttataaata	catatatata	cacacacata	tacatatcca	cacccaactt	180
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<213> Homo sapiens

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atcatacagt	ttccataaat	ggctcttattt	tccttttctg	gttgaaattt	aacccaaaga	180
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tctataaaga	ttattgagtt	gtaaacataa	gatattctatt	caaaagagac	cactgaaatg	360
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<213> Homo sapiens

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ccgtgagatg	ctcacgagta	cccttctctg	tgttttggtta	gcattgaaat	cgagactatt	300
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gc						362

<210> 27
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<400> 27
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 aaagatatatt aaaagctatt tacactacag tgctgacaca tttaaaatga aaaaaaagga 120
 tataaataag ctctatggaa aagctttaaa ttgttgaaaa agaattctgg ctcatattac 180
 aaaatatata tatatatata tatatatata tatatgtcaa tgtcagctct attctaaaac 240
 ctaaaattcc aacgtaaatg attttttttt aaagactcct ttatgtttta acctgcaatg 300
 ttacagtgac atctggccct aagtgtttaa tacttcacag ttatggacag gcactgagga 360
 atgttacaaa gctacataaa ctatgttttg taacagacat aggagcaagt c 411

<210> 28
 <211> 417
 <212> DNA
 <213> Homo sapiens

<400> 28
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 ccgagaagag tcagatgatg gacactcatg caccaccgtg agctatcgaa agaatgtggg 120
 cttagggctt ctgcatggag gtggccacgg aagtgtgaaa gtgaaggcaa gaagtgtgtc 180
 ctgaataaag cttggctggg ttccagacaa aaggctctct gggtaataaa tgttgtctgg 240
 agcagccctc aggagaagag gtaagagcct gtatgggatg gtgtcgctgc caacatcctt 300
 ccctgtgatc ccacttactc ttccctggct gatgagatac ttggggttgt gattcatgat 360
 gattgaattt ccttttgagg atttgtcttt gggcagatga aggaggctca gagaaaa 417

<210> 29
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 29
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 aacttcaacc tttggaatac tgtaatttta catccctttg atgcacagtc cagtatacta 120
 ttttattaca gatcattcta tagggactac agacatgaac tagaggaaat gtgcacagtc 180
 aaaatccaga atatcagctc tgggagtgtg cactgttaga ggatgaagca catcctttgc 240
 catttcaaat actgtgccag gtggagga 268

<210> 30
 <211> 241
 <212> DNA
 <213> Homo sapiens

<400> 30
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 tatgtctaca caaagcttag aagcacttta tttgggagca atcagtattt ttgtcaaac 120
 ttttgacag gtctttattt gtgttttgga aggttcaaca cgaattgtgc aaaatctctg 180
 gatatatagg tttagcgata tggttgttga agaaaataat atgttttaag cattcacaac 240
 g 241

<210> 31
 <211> 361
 <212> DNA
 <213> Homo sapiens

<400> 31
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 aaaaagttga gaatcttgaa attcattttt ttcagtagaa taaaacaata agcagcatga 120
 aaacgtaaag tgctacataa aagccccaca ttacataaat tttgaaaagt ttattggctt 180
 aaacagttac aggtgaaaca gattacgtat tttttttcaa gcatgctatt ttaattacct 240
 tgatatctca tcatgtgcta tggtgggtcaa ataaaatgtc atgagttatc tagatctgag 300
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 c 361

<210> 32
 <211> 363
 <212> DNA
 <213> Homo sapiens

<400> 32
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 atttgaaaaa aatataccac ttcataagcta agtcttacag agaagaggat ttgctaataa 120
 aacttaagtt ttgaaaatta agatgcagggt agtgcttctg aactaatgcc cacagctcca 180
 aggaagacat gtcctattta gttattcaaa tacaagttga gggcattgtg attaaagcaa 240
 caatatattt gttagaactt tggtttttaa ttactgttcc ttgacattac ttataaagag 300
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 aag 363

<210> 33
 <211> 320
 <212> DNA
 <213> Homo sapiens

<400> 33
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 tccaaagtaa acaattcctt tcaacactca agacttaaac aggtattctt agaggggttat 180
 atgaattgct atcagaagct gttggctaac aagccagtaa tttggttctt tcaccagaac 240
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 aacgatata ctttcaatag 320

<210> 34
 <211> 299
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

090703Z MAR 68

090703Z MAR 68

090703Z MAR 68

090706Z MAR 80

[illegible][illegible]

090706Z MAR 80

<210> 38
 <211> 543
 <212> DNA
 <213> Homo sapiens

<400> 38
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 aagtacagtt ctagtgacca caattatgaa gctctgctcg tactaaaaat agcagatata 120
 aagttggctg ccatgcctta cacacactaa gacacacaca cacacacaca cacacacaca 180
 cacacaagggt tttgcatact cttacatgca aacagtacta tgctattata ggaaatgtac 240
 tttccttttta ttaaaaaatac aattacacac aattagtctg ggttttgtta agctaccact 300
 gatttagata aacctgagaa agctcaaaat atcaagtaac actgtttcca tactgctcat 360
 tcaatggcac tatcactcaa aaagaaatct agttcaatca tctatattaa aatcacagat 420
 aatataaaaa taaacatttt ttgcaatagc actaaaacat actataattc aaattcacia 480
 attttgatat gtaacatata ttcacettca tattaatttg tgattatgtg tataatacca 540
 tgt 543

<210> 39
 <211> 186
 <212> DNA
 <213> Homo sapiens

<400> 39
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 ttacacgagc cgcggtggcc tgggtgggtggc acgtgggggg cgcccccgcg gcggcggtcac 120
 agcggtccca ggtcctcgtc cccgcacgca tactcgtaca ggtccacggc gccagcggt 180
 gagggc 186

<210> 40
 <211> 413
 <212> DNA
 <213> Homo sapiens

<400> 40
 tttggaaaat gacaggTTTT tattgctatg tttgcagtgg ctttttagca cagtaagaat 60
 gtccccgag gcccaccacc ctacgcagc cccagccctc cagcctctgt cggggtgtca 120
 gggaagcctt tcttggggtc actcagccgt ctcgggactg gacgtgacag acatacgtgg 180
 gttaaagccg ctacacagaa gactggagggt gcaggaagtg catccgcctt gagcctggat 240
 gtgggagccg tgtccgggggt ccttctctgg ggctgtgcac gccagggca cagggtggga 300
 agcctgagca ggccagggtta gcagcccaga caccaggat ggaatattgc agcctcttgc 360
 cccacagaca cccaagctca cacaattgat attggtgggtg attggcgag gaa 413

<210> 41
 <211> 365
 <212> DNA
 <213> Homo sapiens

<400> 41
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 aatctcttta gttaaatatg tacacattac atgggtatttg tataaagaat ggaaatggat 120

aaagtttttc	aggcaaactct	aatgcacaaa	tacaccatct	tttagagtat	aatgtcagtt	180
tatcattcgt	taacagctgt	gttagacagt	ggctctgctt	tgtgcaaac	gtgataaaca	240
aaattaggaa	aaattctgca	aaattattta	gttccccaag	gaaattacta	aaatagaaaa	300
tggcaaaaga	aaaaaagggt	gcacactgaa	gcttgattgt	atactcaggc	tacaatgacc	360
agcac						365

<210> 42
 <211> 489
 <212> DNA
 <213> Homo sapiens

<400> 42						
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aagaggcaaa	tgttttgcaa	aatatgtaca	aaagtaaaaa	gctgtaatga	actagcaact	120
cattttataa	aatcaaacca	ttctttccac	tttttagacct	cctttagaaa	taattttattg	180
cccatcctga	actaaagcac	tgacaaaaaa	atttacaaca	attatcagat	aatgtgctta	240
gttcctggaa	agttataaaa	agatatatgt	aaaaaaaaaa	tcctaagcca	caaataatttt	300
atagagctaa	tacgagtcac	gttttggttag	gtacagtatc	tacgggggta	ttacaaaata	360
tactttttta	taaggcttct	tgtggtaaat	gagctctcac	cagagtagag	tagtttagaa	420
aagccatttc	aaacgttttg	cgattctgcc	ttcaagtaag	aggtaaaagg	taaatggcat	480
agtttggttg						489

<210> 43
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 43						
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atttgctgac	ttcagcaaag	aatcaatgat	gagcttagtt	tgcaagaacc	ggttccatca	120
catggaacgg	gaacgtatgt	taagctctag	cagccacctt	ctgtcaaac	tgtttgtaaa	180
gcaattacca	taatcagggt	atgaggtccc	ttgggtgggg	gaaaaagtat	tatcaagact	240
tggcacagca	catgaaaagc	aacatgttaa	gtttctaggt	tttaagcaaa	catctgacta	300
tgctattttc	aactacatca	t				321

<210> 44
 <211> 363
 <212> DNA
 <213> Homo sapiens

<400> 44						
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ctactcaaaa	gcaaatagtt	gtcaagaatg	tggtttacaa	gacagatctt	acagataata	120
cagactatat	tatgatttat	ctgtttgaaa	acagaaaagta	gtgtattata	ctgaattctg	180
gtataagggtg	cgcaggaaac	tttacttaca	atcctttatt	ttcataagggt	aaacacaaaa	240
gtattttctca	catatattac	caccagattt	tttttaaac	aaattccggt	ttaaaaatca	300
cacactgaca	acacagaaat	acgaaatgct	aggaaaagtc	tagcatatga	aggaaaaaca	360
tgt						363

<210> 45

<211> 412
<212> DNA
<213> Homo sapiens

<400> 45
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ttaaacagat atttagaaca aattgtaaag aaatacaaat ccttaggtac aatttagtat 120
cttggtcatg atatttgaag agtttaaaaa gaatcactga ttaaaactaac catccttttt 180
ctttctgaat ccaaaacctt ttcaggcata tactccattc caaatttttt tctagcattt 240
cagagcttca gaatatcttt aataccaaaa gcccttaact acttatttga ttatacattt 300
ccaatgagaa ggcatttaact tttcttttaa gctatcatta gctttgagtc tctttataaa 360
agaaatttgt agaagcataa tcatggcaga gaggtccag ctttttgagg ta 412

<210> 46
<211> 421
<212> DNA
<213> Homo sapiens

<400> 46
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aattatgtga cattaagaaa taatttggtt gcatattatt ttcaaaaagc agtaagaaag 120
tagctattga gaaagaagga gggccatagg tttttcaata aaacgttaga aacattataa 180
aaaacgagac tcccattaca tggaaacaca tgatcaaaga tcagactaac acacattcaa 240
acaggcttgg ttcgaaatag agttctccat ttctttcaga tgagcctttt ttcttaggct 300
ctttcagaag cacttcacaa tgaacagagg tcttgccagc tcatttcatt agcgagaaag 360
caaaggtatg atggcagaat catgagaaga tggaaataag gcctgaggat atggcttgat 420
c 421

<210> 47
<211> 324
<212> DNA
<213> Homo sapiens

<400> 47
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acagcgatta catctccttg tgtctaaatt aaagtcaaag tatgaatttt aagatgattt 120
ttaattattt aacaagtaga aatacgatca gtgacaatta tcaattaaaa cattaaacaa 180
cccagttacc ttttcttaac agtcatgatg aaatatccct ttctgtctt atcagaagcc 240
ttaattattc tctaccacac acaccacaaa agcttcttaa tagagcatca gtgtccatca 300
cacctttgtg tagaatctct ggca 324

<210> 48
<211> 502
<212> DNA
<213> Homo sapiens

<400> 48
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tgataattca tgtagaacgg gtgccacaga ttttaaagta tcaaaaccaa gagggcatca 120
caaaataaac tttggtgaaa aatatcttca tcaaagaaga aaatatgaga agagtagtcc 180
ttatgcagtg aggagaaata tatttggtta agtaaatatg ggtagtagat actgaatcta 240

tagatagcat	atattccaaa	tggttttttag	ggaatatcaa	atcagatgat	gcttagatgt	300
tatagtaata	tcacttatct	catttggaat	gaaatttaat	gttttttaat	aaatagcaaa	360
ttttcatttt	ttcactacct	ttataaaaca	aattaaatat	ttagagtata	actgatcata	420
actaacatca	ccttgcattt	actaataaat	actctaaata	catttggttt	attattggaa	480
tttataatcct	tataatttta	cc				502

<210> 49
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 49						
gagaaacact	atatttttat	ttattttattt	atatttgagac	agtcttgctc	ttattgcca	60
ggctagagt	cagtatttac	aaattacaca	cacataaaat	ctggatttct	agcttcttat	120
gacaaaggat	ctggcaacac	cgggccacac	ttcagcccca	caggccacag	gtgacttgac	180
ttgctccag	ttcaccctcg	ccctgcccag	ctttgtctcc	tgacaccgaa	acagcccgtc	240
agagctgtca	ctcggttca	tgctgtttac	ctgtctggcc	ctggaaaggc	cctggagtgtg	300
gtggcgccac	tccaggtcaa	caggcatgtt	tagaaggagc	ctgccagggg	ctgcatggcc	360
gaggagccac	ctctccctgc	agaggaaagg	gatcctgc			398

<210> 50
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 50						
tttgaaggta	tatattgttt	attatttttta	catcgtctct	tccctactgc	atcaagcccc	60
atcatcctag	catgcacca	ggaaatcagc	aaaaacccat	ttaagagtcc	agacttcaag	120
ggtccctcac	agtaatgggc	atctcttggt	ttgcccagac	agagcagacc	actcgtttcc	180
ccttattctg	ctaattgtat	ttcattttcc	tttaagcaac	cacctttcac	cccatcctga	240
atcctcagac	cttattttcc	tggtcttagg	aattagcaca	tgacacaggc	ctggccactc	300
agagtgtttc	attcccctag	aagtagagat	gagaccccaa	acgggtcaat	gacactctcc	360
acttgggaatt	attggaataa	gtaaatctct	tcccactggg	ttactgggtt	agcaggatag	420
aagc						424

<210> 51
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 51						
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tttaaaataa	aagtcataca	aacacaaaat	atattttctgt	gtcatgccag	ctcattatat	120
aataaacatg	ttatgacagc	taattctact	agaattactg	tgaatactta	cagtacactg	180
aatttttattc	tttcacatcc	attttagttt	ttaaagagagg	ttcacgagtt	aaatgacaat	240
ggcatggcta	tcttgaatgg	ggtgcaaaca	tcattgggga	atgtggatcc	aattaatccg	300
aagggtccggt	gtgaccgta	ttagttttat	agacaagaga	aggggttaag	atagggtgaa	360
atgagctatc	agtggtttca	atgtctcatg	aaagaaagaa	atgcattaaa	aaaaaaaaag	420
tttg						424

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<210> 53
<211> 497
<212> DNA
<213> Homo sapiens
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<210> 54
<211> 423
<212> DNA
<213> Homo sapiens
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<210> 55
<211> 400
<212> DNA
<213> Homo sapiens
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<400> 55
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 gcaatctctg cctcccgggt tcaagcgatt ctctgcctc agcctcctga gcagctggga 120
 ttacaggtgc ccaccacgcc cggctttttg tatttttagt agagacgggg ttttgccatg 180
 ttggccaggc tggctctgcaa ctctagcct caggtgatct gcctgcctca gcctcccaa 240
 gtgctgggat tacaggcgtg acgaccacgc ccagccacgt tctgagtttt gaggatccag 300
 aaacaaaagg ctggaaagcg acacttctac aggtttactg atgagtcgag agaaaatcca 360
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<210> 56
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 56
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 aaccaacctt aatggcttgt tggaggataa gacggcatca acttgatcat ttgcccattg 180
 agagaactcc caggagcaac tgtcctctct ccagtacacg cggcacgttg ctaagaaggc 240
 agatttcagg atattcacat tcatgcatta cgtatctcac actacctg 288

<210> 57
 <211> 299
 <212> DNA
 <213> Homo sapiens

<400> 57
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 gttaacttca agacagcaat taaaatcacg gactggcagc tacctaggcc cctgggagca 120
 gtatctcagt ctgggggtttg ggtggataaa tactataaga tttaagatga atgtgcccc 180
 attaaagggg caaaactact gtacagtagg tctccacaca tattttaagt acacaggtag 240
 tttgcaaact tgaaatgcac aaggcctcct tttatatagt ttgatactta catgagtgc 299

<210> 58
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 58
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 aaatgaaaca gtgtgcgtac tggctgttag aagttgatgg cggctctactg tttgatattc 120
 actgccatct tcctctgccc cactctacct caactcggga ccgctcacc taatggtggg 180
 ctttgcgctt tatgccatgt agagaagaca ctgggtaacc acagcaaate aacacgagat 240
 cctgtactgc ctactctggg aatataaatg gctctgagga caggggataa aacaaaaaga 300
 tctaggagta gctgaatgcc aagagacgag ttagaacaag ttttagttcc aaagatgatt 360
 agactggaaa gaaaactgat ccaaggaggg tcatttctgt gtagatc 407

<210> 59
 <211> 440
 <212> DNA

<213> Homo sapiens

<400> 59

aaataataca	actagtaatt	tcttaagatc	ataaattcca	ttacagtaac	cctggtaggc	60
aactctataa	agttctgggc	tccaagaaga	ggtcagtgca	tgccataaat	gtgtttgatc	120
tgctgtgaag	tatattcagt	cttcaaaatg	taatgcttac	atgagataaa	atcggttggt	180
taccaccccc	aaattagcat	atgccagcct	gcacaaaggt	aaatagcaaa	aactttaact	240
gctcaatctg	aattaaccaa	agattccttc	taggaatctt	aaaaaaaaat	aagggtacga	300
acactccaag	cacttatttt	cagatgcac	aactgacata	aattaaaaat	ggtacaaact	360
aataattgaa	caccagtagc	gtaacaaaat	agaattttca	ctctttctgc	tttcagtcaa	420
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<210> 60

<211> 436

<212> DNA

<213> Homo sapiens

<400> 60

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agaaaaaaga	aacactttgt	ctccctatag	agcattttat	agtataggaa	gggattcaaa	120
ttctcttttt	aacaaaattc	ttgtttctat	atagaggaga	ttttatattc	ttaatgttta	180
caacaaagcc	tatttccacc	aaaaaagcaa	gaagaaatta	ataaatgaaa	tcctgaactc	240
taaaaaccta	agaaataaaa	ctgtgaacaa	ttctgaaacg	gagtgttttt	tctaaaggct	300
aatacaaaaca	taccaaataa	gaattttctga	gcacgaacta	tgtgatttca	tttcaatcgt	360
atcactttca	tctgattgaa	ataattttaga	aacaataagg	atgatcttaa	tctcactatt	420
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<210> 61

<211> 438

<212> DNA

<213> Homo sapiens

<400> 61

tttttgccac	gcaattctga	ataaagttta	ttaaataata	tgtacagcaa	atgtagtaat	60
tcaacacatc	tattttatcaa	atcaatccac	tgcaatgaag	aaaaataaat	gaacagaaaa	120
atctatgtct	gcataggaca	tgctctcagt	gtgtaattta	aatggcaata	ctttaaatta	180
attgggttata	tataatgtca	gttatttttc	tttcagaata	taaccttttt	tgtagtaacc	240
tattctagca	ataggactta	atacgactgc	agataaatag	gactgcaaaa	acaaaaaacc	300
caaaataatg	aaattaaaaa	ggaaaaaaa	actgtaactg	agatcagagt	tacctttcct	360
ccccaataga	atacttatcg	taaattttta	cactttacaa	tggctatttt	tgtgctaaaa	420
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<210> 62

<211> 387

<212> DNA

<213> Homo sapiens

<400> 62

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agtgaccctc	tgggaaagcg	ggagtttttg	ttttgtcttc	taccagggtc	gcaagagcct	120
agaactgggt	ctggcataca	gcaaaggctc	atttattgct	gaatgaatgc	atagtttggg	180

gaaggggagg	acaagctgag	gccacatttg	ggacgggtgc	tgggggtggg	tggagaaggg	240
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gcaggttctg	agaggggctg	ggcctgcctg	aacaggggaag	gggtccagca	gccgtggtca	360
ccttgctggg	actggtgtgt	ggggcca				387

<210> 63
 <211> 183
 <212> DNA
 <213> Homo sapiens

<400> 63						
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caattaaata	gtttaatcac	ttcaaaatat	aacatgtccc	caggaggttc	caacacacac	120
acacacacac	acacacaaaa	caatacttaa	cagcaataca	aaaatccata	caatagtatt	180
ttt						183

<210> 64
 <211> 270
 <212> DNA
 <213> Homo sapiens

<400> 64						
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<212> DNA
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<220>

<221> misc_feature
<223> n=a,t,g or c

<400> 114

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 <211> 297
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

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 actgtatatc aacatttttac tagacttatt ttatgaagaa tagtgaacgt gtagcaaact 180
 tgantttcca aagcgaaaca tatggataaa agtgaaggcc ggggtgcggtg gctcacacct 240
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<210> 116
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 116
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 tgttcccttg aaaacttttt ttccctacaa aattttaagt gaaaaataca atagtaaatt 180
 aagattacac tggggaaaaa aatgcaggta tcactttact ccattgttat ct 232

<210> 117
 <211> 338
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

<400> 117
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 caattttcaa agagtcagag tagtacagaa atgttcaatg ttaaatcact actcaacata 180
 agcaatctga ctttgatggg tcacaagctc ttccagatct tgtngtgct taaagttctc 240
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 agaaaagcca gatcacctgc ctccaagatg ccgggcac 338

<210> 118

SECRET

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<220>
<221> misc_feature
<223> n=a,t,g or c
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aattaaccct	tgtcagggaa	ggcattgcc	taaacgaaag	gaccataac	tgcattaagc		180
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aatttttaaa	aagtctctaa	tgcaaaattt	agttcaagta	tcaaaggtct	gatcaatttt		300
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<212> DNA
<213> Homo sapiens
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<220>
<221> misc_feature
<223> n=a,t,g or c
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cacatcttca	ctgcaaagaa	cagttacaca	attaaatttt	gtcttataaa	aggtaacttc		180
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gttncatccg	ggtcatgtac	tgtaggaaaa	tttctggatg	ggcagccaca	gaatttgggt		360
gtctcatggc	ggcttaaggt	ccaactatgg	acatgtttgg	taaatcngtg	tntttccctt		420
aaaaccqgag	qncaaa						436

<210> 121
 <211> 206
 <212> DNA
 <213> Homo sapiens

<400> 121
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 agcactacag caaacatgac atactgtaat agaattttat tgaaaaaaat aacacgtact 180
 tactgaagtt tttttttttt tttttt 206

<210> 122
 <211> 416
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

<400> 122
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 aaaacctttg agcaacctac cagtattatt ttcaaagcct ctaattctac ataatttatg 180
 cctgataaat ttaattttaga agtccaaagt atcacgaagt cattcaactt tttttttaag 240
 tctcacatga cggcgcagag ccctgggcat ggggggggaa gctgcctgca gagntcgagg 300
 gctgtgcccc gtgcattcca cgggaggcca cggagggcct tcttcattcc tgccttcctt 360
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<210> 123
 <211> 346
 <212> DNA
 <213> Homo sapiens

<400> 123
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 gtgcggggcc tcaactggcca gcctctgggt ggccccgcct atcccagtat gaacgtagcc 120
 aactcaagcc ctctactgtg tctcctcgag gctgatactc acagcccacg aagcctttgt 180
 agccttcac ttcacagcagtg tgaacagat aggggaaatt cagctctccg gggctgctgg 240
 gctccccctg gcctgggacc tgtgccacct gcacatgccc aacaatgggc aggaactccc 300
 ggatgtttcc tgtcagggtc ccatccatga tctgccagtg ggaata 346

<210> 124
 <211> 394
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> n=a,t,g or c

<400> 124

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ccttagaagg gaaaggccat tgctgggcag gatctgggtg caacgcacac ggaagtccta    180
gaactctatg aagcctacct caggccctgc ggggtgcgtct ggagttccaa ggcatttggg    240
ggaaccaaag caatttcagc taacagtgc cagtttttag gaatgggagc ttatgatcag    300
agggaccata aaccctcatc caccctagga gctcaatgcc aggaaaaata aaaaataatt    360
ncaaaaaata aaggggaaat agctttttgt gcta                                394
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<210> 125

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 125

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atgcaactgg attggggggg gtcattccaa acaccctcag atcctgccca gatattcatc    120
tgtgaacaag gtatttcaac actaattttg aaacaattct acatctagca ggtcagttta    180
tcattttcca gaatctgaac tactgtcagg atagactcaa gtgagattaa cacagggtta    240
atcttcaatc ttaacacaat tatcaattag ttctcccagt ggaacgatta aggcttttgt    300
caacatgtag gcatttctgc tgtnaaccta taagtctnca tattaccagt tccccgggat    360
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<210> 126

<211> 387

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 126

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tttgtaacata cgataacccc aganggagct tcacactgca ggcatatcat attgctttca    180
ttgctacacc cacaattggg ttccaagaga gtgtgctcgt gtttgcattc tgtaagtnct    240
tnggettaat cctcccccta tctgtgtggg gttccatgtt aataaaatga taggggggtg    300
ggctttgcag gctgggtcag ggggcttctc ctccacttca cctcccaatc caccctagg    360
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<210> 127

<211> 429

<212> DNA

<213> Homo sapiens

<400> 127
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tgctctcgg 429

<210> 128
<211> 439
<212> DNA
<213> Homo sapiens

<400> 128
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<210> 129
<211> 363
<212> DNA
<213> Homo sapiens

<400> 129
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<210> 130
<211> 809
<212> DNA
<213> Homo sapiens

<400> 130
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<211> 655

<212> DNA

<213> Homo sapiens

<400> 139

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<211> 1344

<212> DNA
<213> Homo sapiens

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<211> 2828
<212> DNA
<213> Homo sapiens

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<211> 2848

<212> DNA

<213> Homo sapiens

<400> 142

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<211> 3175

<212> DNA

<213> Homo sapiens

<400> 143

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 <212> DNA
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 <211> 1763
 <212> DNA
 <213> Homo sapiens

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 <211> 571
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<213> Homo sapiens

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<211> 472

<212> DNA

<213> Homo sapiens

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<221> misc_feature

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<400> 175

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<213> Homo sapiens

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 <212> DNA
 <213> Homo sapiens

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<210> 179
 <211> 474
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 179
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<210> 180
 <211> 510
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 180
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 taagatgact tagtatttta aataacttga agctctgtac tgtggctctt gttcataaga 120
 aacactgaac caacaagcag cagattcagc ccagccaaga ctctgatgcc ccagtggaaa 180
 tcactactca caagccttaa ttgatacagt tttacactgn tttgccaag anntgtacna 240
 taccaactca nttaagagta ttntcttcag gaaacaattc atatcttcac atagtcatta 300
 aaaagtttaa caatttaatg agtaggttcc cctatcacat tttggcaata tcataaaatg 360
 gttttagaca tgaaagagct attatggatt tagaaggcct taaatttcct aaaccaatat 420
 tgaacatcga ttaaaccnng tattggctgt aaatgggaca atatattggc caatccctgg 480
 taaccctggg gccccaatat aggnaagtta 510

<210> 181
 <211> 589
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 181
 atagctacat actttattca aataccactg ggaggcaagg ggtaagaggc aagggcagaa 60
 tgtacaggtc aggattctag tgtcttcagc ctgccgacag caacctgggt gctgggccct 120
 gtgtctcctg gagccaaggg ttagggcctg agcagctgtc actctctggg aagcccaggg 180
 agtggggctg actgagcagg ggccatagag cctagtaagg gaagaggagg ctggcaagga 240
 gccaggggag ggaggctctg tgaattgtct ctgattcctt tcctggagcc cctgcctcgt 300
 cacctcctgg gatgcgtctc aaggctcatg aggttgtagt ggaggaggac tgggggctgt 360
 ttctcagaca aagaatgagg ttattggcac agaattggat cagggggcct ctgtgcaact 420
 ccttcctgcc ttcagaaagg gagggggcat tnaagggatg agaactccac taagtccttc 480
 gaanccccc atcccaatg aggtcctca aagctactct cagccctgag tgggagacac 540
 ggccagctct gggcaagtct ctgggtggct agccttagca ctgtggcaa 589

<210> 182
 <211> 465
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 182
 gagggttttt actttttatt tggaaataag acatggaagt tgcaaagata gactactcct 60

atgtattcct	ccaactttcc	ccaatgataa	tatctcacac	aaccatagat	tatcaaaacc	120
agaaaaactga	ccaggcacag	tgggtgtcac	ttatagtccc	agctactcag	gtggctgagg	180
tgggaagatc	ccttgagttc	aggagttcaa	ggccagcctg	ggcaacacag	tgagaccctg	240
gctctataaa	caaaaatggn	agaaaaccag	aaaactgggtg	tcatcaattg	tgtttaagga	300
aaccgaggct	cctttaaaag	tttgttataa	aattatagat	atctcctaaa	tattgagggtg	360
gaaagattcc	cctgggaagc	agcctagtcc	agaaagttga	agacagtgc	atcccagata	420
ggttaatact	tctggccagc	accataatta	caccctcct	tnggt		465

<210> 183
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400>	183	
ttttttgttc	tcaaataattt	tttaataaat
gcagcaaact	aaggtcagat	gagaggggaa
acaacctcct	ccccgacct	ctaggttaag
ctgttacaca	gggtgaatgg	gagaggaagg
caggacaccc	ctgcccttct	caccctaccc
atctcacagc	actctaaggg	gaagtttggg
tgtgcccttg	aggaagccga	tcctgccaaa
cctcttcac	ccaaggagcc	at
		60
		120
		180
		240
		300
		360
		420
		442

<210> 184
 <211> 437
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400>	184	
tcaagagatt	agaaaaattt	tattcatcat
atgaaaaata	tattaaaggt	attttcaagt
aaaccacaca	gtaaactgg	aagtacacat
gttttagaat	tcatatatat	gtttttgtag
acataagatt	ttcattttaac	aaacatatga
gaaggctgta	aaatcctgtt	atttttttca
tagcaaaaat	acagtacttc	taattttctt
tggcttataa	ttatatn	
		60
		120
		180
		240
		300
		360
		420
		437

<210> 185
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400>	185	
aacagaaaac	cggcaattgt	tattttat
gagagcaaga	tataaaatca	tatcaacct
		60
		120

cacaaaaaac	aatatat	aaaaatccac	tgtagtttt	taggaaaaag	atttagcagt	180
ttccattaag	cactacatcc	cactattcca	tttttaggaa	ggacagatgc	ttgaggccat	240
aggttaccag	ctcttggttg	gtctttaaaa	atgcaagtaa	gttgctaaca	ttttcaaata	300
agatttcaac	ataact					316

<210> 186
 <211> 207
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400>	186	
ttttgagatc	atctactcaa	agttttattgg actgaacaga taaaaaatat ggagcagaaa 60
ggaaaaccca	ctggggaggt	agaggaaatg acagagaaac cagaaatgac agcagaggag 120
aagcaaacat	tactaaagag	gagattgctt gcagagaaac tcaaagaaga agttattaat 180
nagtaataat	taagaacaat	ttaacaa 207

<210> 187
 <211> 687
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400>	187	
tgcaaaccac	accaaatacat	tttattgtgc aatttccttc taccagaaaa ttactaaaaa 60
tataaatatt	aactctctaa	aaaataactca gaatagatct gtaatcttcc tcctcctcct 120
cagaactgga	gccaatcttc	ttctttaaac ctgatggatt gcatacatgt atgtcttcca 180
tatcagccac	atacacaaca	ttcagatata ctccgtctg tgcaggggga tacaccagcc 240
tcctgccagg	ttctggaagc	tcaccttata atctaccagg ataaagctgt gtgctgagta 300
ggaggttatg	gtgggggttg	ggagtaacaa ggagataaaa gaccttgttg tcccaacttc 360
cttatgtgga	cagagaagat	aggtccttta ctccctcctca ttaccctgnc ctctcatgga 420
ctgggctaac	tgaaggccaa	gctcccagag aagctggact cactgtgcgg gattactgag 480
ggtgtggctg	ccaggctaca	gtcacaggaa ggnccagactg ttgagatgga catggaaacc 540
aggtgaggct	ttggatggna	agctgggtctg gggcaaagct ctgcaggatg agtagtagct 600
gttccggcgg	gntttgggna	gccccagacc ctagcaccag gtactatgtg cagcatctaa 660
gaccagnacc	agtctccaag	agcccc 687

<210> 188
 <211> 587
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> n=a,t,g or c

<400> 188

tcaaataatc	catctaacag	ccatgagacc	actcaagtat	ttgaggtcat	cagctgcgtc	60
catcaagaca	tgatattgaa	catggacacc	atctggctctg	ttggctctgtt	tttggttgga	120
aaggactcca	aaaggatgca	gttgatgtg	tttcagctga	accacatacc	atagctcctc	180
tcccctcaca	aaagggtttc	tctgggggga	gaaaagtaac	tgattatacc	tctcatgtct	240
caaactgaaa	ttctgagaag	caaatggtca	gttgagggcc	ccattccaga	tctgccggga	300
cgtcctcaga	tgtccagagc	tggcaaaagg	tggagcaggc	agcagctttg	ggcaccagcc	360
tgtctctttc	tgttctgata	aggccacaca	catggctttt	tgtgataagc	ttccagccca	420
tgccactgaa	ataacgttta	agaacctggc	tgcatttcac	agaaatagcg	taatgggaaa	480
tcattatgta	attaaacaaa	gcatgaagct	cattatcctt	ttccttttaa	caaaccttca	540
atttcacatt	ttagtggaca	ctgtggnttc	cagagaatat	atggatt		587

<210> 189

<211> 469

<212> DNA

<213> Homo sapiens

<400> 189

atgtaaaact	gacttttatt	acaattaaaa	aagaacaaag	acaatttgat	aagtgccttt	60
aattacaaca	tacctgctat	ttacatgtaa	tcatactttt	atatatagct	tgaataagtt	120
ttattacatg	taaactataa	gatattacaa	gttaaactcc	agtcttttct	ggatattcaa	180
ttgaaatact	actggcagaa	acatacagaa	aacaaatacc	catttcagtt	cctcaggtag	240
cattactggt	tgaatgatca	agatctggcc	acagaagaga	agtggaaata	tgcataaaaa	300
caaaacttat	tcttaacatg	actaacagta	ttgttattta	aaccctaaac	ataattaata	360
attggatcat	taaaaacaca	acttcaattt	atatagcacc	tttcttccga	agagttgaaa	420
gcattcgtgc	ttatctctat	tatttcgttt	gtccccataa	catctctat		469

<210> 190

<211> 458

<212> DNA

<213> Homo sapiens

<400> 190

tccgagataa	gaattcactt	ttatttttcc	agaattaata	ggaatgtcat	tgtgctttga	60
agaataaaca	aggaaaagaa	tgataaaaaga	gttggaaaaa	tgagcagggg	tcatgccaaag	120
taagaatgtg	tacgatatgg	taggtgtcat	tggtatgtta	taaaatgtat	tatgaaaata	180
ttttgatgat	atttcaaaag	ggaaataatg	ctacctaatg	ataatatgaa	aaaacgactc	240
tggctgctgt	agggagaaaa	tataggcttg	gagttgggag	aagagtgaaa	agaaggccag	300
ttggagacaa	ttatactaca	tttagcttta	ggaagggtgct	gaaggagtca	tggattgaga	360
ttgttttcca	agttttcagt	tgaacaattt	caatatgggtg	gcattactta	atgacatagg	420
gaggccagag	aacaaacaga	tttggaaagga	tgtggtag			458

<210> 191

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 191

ttnggagtt	cttaagagtt	ttacttattg	ctgttcttaa	attccttccc	ctaccacttc	60
ctcttgggct	tttttatttc	tcttggtgat	caatctcttt	tttgtgatac	ttttcattga	120
atcatctcga	ctcctttatc	ccatccttta	ctcgactcaa	actccttatg	ctgaactttt	180
caatccaaaa	tttctattgt	tttaggactc	tgggaagcag	ttgataaaaa	gataaacacga	240
gctactgata	tggtcaggag	atgttttcta	aacaaattgt	agaaatataa	acatgaaatg	300
tggcaatgat	ccctttaatt	agatcattga	gcaataaagg	atatgaacca	ttagtataaa	360
tattcaattc	agtctttccg	gatttgtgtg	ttagataaga	atacatccaa	aaagggccac	420
agatcgaggg	agaaaccaag	gaggggtgag	gtcatgggtt	gagtgttaatt	ggttct	476

<210> 192

<211> 582

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 192

ttttttttta	agtacttatt	tttctttatt	tttatattatt	ttcttttttg	gtgacatata	60
acttaagtgt	ggtaaagtat	ataaaggcca	cagatcttaa	gtgtaccagg	taatgaattt	120
tcacaaattt	atgcatccat	ggtaaccgct	aatcagagaa	catttccagc	accagacgt	180
cttccttggt	ctctttccct	gtcaattccc	ctgctccaga	agcaaccacc	catctaattgc	240
ctttcaaaaa	caggcacaga	gattcgttgt	gtctgttttt	gaacttcatg	cgaatgaaat	300
cttacagcat	gtcttcctgt	tgtctggcat	ctttagctct	ttatgtctgg	caaagtcttt	360
tatgtcattc	tatgtagcag	gagtttagaa	ccaactttat	gggccgggct	tgggtggctca	420
catctgtaat	cccagcactt	tggggaggcg	gaagcagaag	gcaggcagaa	cacgtgaggc	480
tagggagttc	cgagaccagc	ctggggccaac	ataatggaan	ccccatctcn	actaaaaatt	540
caaaaaatta	gcgggcntgg	gtggaagggt	caaccggtaa	cc		582

<210> 193

<211> 413

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 193

aagagttgca	tatttttactt	tattttttatt	aaattaaaaag	ctacagtctg	gcagcgatttc	60
cagaacaggg	taaggagggt	cctcacaggg	gtcagagaag	agcggagaaa	gacagactga	120
cggagactga	gacacaggag	agaaaggaca	aggttaaagg	agaactgtat	ctgatgaaca	180
cacacagccg	gctccatggc	gggtgacggg	gagctcacat	cagcccaatt	tctcctcccc	240
ggcacccgaa	gttcagcggg	ggagcagtat	gtggggggcg	ttaggaatca	agagaccctc	300
ccttccccac	cctaggtcct	tntctcggt	tggctgtgga	gcacagcaca	ttaccagaaa	360
aagncaaggg	caattgangg	gcaggggaaac	cgggagnata	ttntacacgg	gga	413

<210> 194
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 194
 cttcatcaat atttattggg cgcctattat gtgcaaggcc ttacactagg cgctggggaa 60
 gatacaaaga taaatctgac agactgccct caaagagctt acagtctagt ataggagcat 120
 acagtctctg gagaagatat tttaagtgtg actaacctcc cccatcccac cccacaaaa 180
 aaaaagaaaa aacctactag acttggtttc ttccatttac ttttagttta gcagcttcac 240
 gtaaaaagca taaatctgaa agtcttttaa aatgcatact tttactggta aacaaaattc 300
 attttcatta gaaaaaatgc tgaatattta ttgcaattaa gaaaaatctt cagccgggca 360
 cggtgggctc acacctgtta tcctaacact ttgggaggcc gaggcagggtg gatcacttga 420
 ggtcaggagt ttgagaccag cctggccaac ataag 455

<210> 195
 <211> 444
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 195
 ggcagttttt cctgtttatt atatagttat tctaagggtg taagtgtcac aaagttaact 60
 tcaagaggaa taacatggct cagtgtgaaa cacaagggtac aacattttac aatgaaacca 120
 cagcaciaag taactgaact ttcaaaattg ggtagttcaa tgaaacattt tgtcaaccct 180
 tagtctata aagctctgct gatggactta gttgatggat ttaaaaaata tattgctgtg 240
 tcaaattgtt taacacaaaa tgtttttttt taaagagaat acacatccaa tcaactgaaa 300
 ctgtgagcag aaagtatgta acctctttat aaaaaccgtt atccaaattt acaacattca 360
 taatatattt caaagtanag agttcttaga aaaataaact caattccttg cttactgatg 420
 agtatcaact cctcaaaaca catc 444

<210> 196
 <211> 450
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 196
 aataccattt tgagagtaat tttaaagact aatgcgaaag ttcgggagca cattgtatat 60
 ttgaaataag tgtagtgtgt gcaaagacca ttttctacct gtggataaaa atcaattccc 120
 ccaaaggcct aaaagcatga acaatgttta ttttcgagta aataattaaa ctacatattt 180
 aacatggaaa aaattaaatg aatgtcaaaa ccaaaattaa gaactataag caaagcatgc 240
 agtctctgtt aacaaaactt agttgtgaaa ctacattttt cattttgtaa atgccattat 300
 ttcatttcat aaaatggtaa aaatcctcag tatcattctt tacacttgat ggggcaaaaca 360
 cttcctttcc ctatttttcc cggnatttcc tgcaaaataa atctaccatc tcaagttccn 420
 taatggttca tactttcttc tcaacatatt 450

<210> 197
 <211> 447
 <212> DNA
 <213> Homo sapiens

<400> 197
 atcaatcata tttctgtcat ctccaaccta agatattttt tagattgtct ccctattctt 60
 tgattcaaaa gcccaattaca gaaactatga acttgaccta attctgggtt ttgacaatta 120
 tgagacagaa ataaagaaat cgcaagcagt tcttttcttt gcacactgac ctttttttaa 180
 ttacatcatc ctctatgatg atgggtgctt cacaactgca gctctcctgt atgtcaaaat 240
 cattctgggtt tccaggtaaa tggacaaagg agatttgctt tcagtgtcta gaaggcaatt 300
 tacttttcag ctgccttaat tacctatagt ttaaagaaag gaatgccaca tatagggtcc 360
 tttaaacatc taaaatgggg aggttggcct ccaaggggca ccattcccaa acatttgatt 420
 tcaagtccca gaagcctttc atatatg 447

<210> 198
 <211> 288
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 198
 gcaacaaaag aaactattta tttggaatat gcattaccag tacaattag gagactgtaa 60
 aacctacacc gtgttagtat cattagagaa cacaaaagtt cagttggaat caaaaggac 120
 agaagcctgt gctctcacag aagcagaaaa gcttaaactt tcaaaacca aacagagcag 180
 agtttgcagg tttatattct gaataataag aaatgggng gggtaggggg agaataaac 240
 caacaacca aggaaagcat ttcaaattga aaatgccaaa ggaaagaa 288

<210> 199
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 199
 tttttttttt tttttttttt ttatttttcc ataaaaatgt aatttttaatg atacagaaat 60
 agtatatgta cttttctttc cacagcagca cttcattcat ctctaaaaaa ttttaacaaa 120
 ttaaggctaa atcagagcga gctgatagga aggggtattc tatgtgggtg tcttcttaaa 180
 gaatgttctc ataaatatag gatgttctgc agacaagaaa taaaaataaa acatgctgaa 240
 caagatacca aaaatgggaa atgcagtaga aaatgagccc ctttctacca atctactaag 300
 aatcccaact cccctggg 318

<210> 200
 <211> 231
 <212> DNA
 <213> Homo sapiens

<400> 200
tctattttaga tcggatttta ttttgcaata tttattatat attcaattca aatgtactca 60
ctattgtgct aggcaattga aagtaaaaag tataaagctg cattttgctg tctcagttag 120
gtttaagtca gggaaatgag gcatgcacac aaaataacga gaaagtagta taatagctgt 180
gatcattagt tatcaaaata agtgaatgag ctaataatca ttgttagaat a 231

<210> 201
<211> 460
<212> DNA
<213> Homo sapiens

<400> 201
taacagaaaa aagtcaaatg acaattttta tagactttta aacagtgtac aagtaaaaaa 60
cactggtttt gtatttcaaa agttgaagga agatatccag tcattaaaca gtctacaaaa 120
catatgccag taaattacat aaaagactat gtacaatata aaaagagctg aaaacagtct 180
tactgtataa aataatttta aacaaacttt tcaattttta atatcatcta tagcacacaa 240
acatcatgca aatggaaaac taaatatact gcattcttta gtgtagccaa ataaattcag 300
attgagacat cttataagta agggaaatgg ccattcaata cgattttttt ctctggcagt 360
aatggctcta gctgggtgtt ttatgcataa agaacagcta tatttcaaac cctttttatt 420
gtaataaata ctaaagcaac agaggaatac tttattaatt 460

<210> 202
<211> 440
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 202
gtttattaaa ccagatttat tctccacaag ctgaagatac ctgagggttac atgaggactg 60
gcattaaata atttataaat gtatttttga ctgacagact tttatcataa ggattcatgt 120
gtttacaaaa gcaaaatcca acctctccag agctagaaag tgggaagggtg cccgggctgc 180
aacacagcct tgggggagga tgaggccaca taattctctc tgcccacact ctgagaatgc 240
cccaagaagt tagtagctac acaaagccaa gccttggggg aaaacctggt ccgtgggtgtg 300
gactctcaa aatgcagacc caaccggang cggggccgc ctttccatct ggaggcactg 360
cagggcttct gaaagcggcc catcccagga gcctggcaaa caccaccaga gaccctcagg 420
atgcgcagcc ccggggcttt 440

<210> 203
<211> 210
<212> DNA
<213> Homo sapiens

<400> 203
aaagtaaagg atttattgta atctgcttac agtcctttgc aaagacagac atatgttttt 60
gcataaagat ataaattgct tcatttttaa ctaatttagt gtttttttaa attatatgaa 120
cttttggtga attatgaact gtaccaaacc aagattttta agagcaatat ggtacaaaaa 180
taagagcaga cagacaattt ggactgggac 210

<210> 204
<211> 529
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 204
ttttttgact agaaagggag cactttaatg aacagaagta cagacgtgct ggcaaggatg 60
gaaatctcca ctgggttcctg gcccccttca cctccatgca tccccagcat ggggtgttaat 120
cattacccaa gctctcgctg ttccccctca cccctgcag agtccagcag gtctagatac 180
gtgctctttg aaatgtgttc tgggattaaa aatgggtgcc tgaggctgtc taaccctcac 240
aaaagacaga cacatgcaca cacgggcctt ggggagggct gtgtattagc agtcagggtg 300
gccctcctgg gagagcttgc tcaagaactc ttctcggaag gaaaccacc ttaaggtagg 360
gttctgatag gcagantccc agagggacag ccagctgcta gaagatgggg ttatccaggg 420
tttgtaaggt ttaaacaacg ggcagggagn caaacgagtc aaatgggttc ctcggtcgaa 480
ttttggctcg aggcaaattc ctatagttag ngattaaat cgtaacatg 529

<210> 205
<211> 445
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 205
ttttcattac tgagaggacg ctttatttcc ttgtgcaaaa gagcatttca agtcaaggta 60
gtcagtcaca cttgggagag tccggctcac ataggaactg ggggtagaag aggtacttta 120
agttgtactc agtttgggct aagcagttag caatctcctg gtcacacttg cacaacagtt 180
cttggcattt gttctctgcc ggtccgcaca ggacgctctg attgacgcac tgccaggagt 240
agcgtctgt cttggggctg cagcggcctc ctcagctcga gtgtaacaac agtcgtggcc 300
atggcagcac cagtcaatgg catcgcgagg ctggccatgg cctcccaagc cacaaaagca 360
accatatttc atataggcga tgggggttcg gggaccaaca caacccccag ttctgccag 420
tttccaggat cccangccgg tggnt 445

<210> 206
<211> 197
<212> DNA
<213> Homo sapiens

<400> 206
tttttttttt tttttgttat atacatttta ttgaaaaaaa attttacaac aaaatatttt 60
ggcaaactgt aaaagtatac ataagtgcaa atatatctc cttttaaaat acaagcaaag 120
tgtgagtata cacggtcata aaaatatctt taaaatatgg tggtagaaaa caaccttgta 180
aaaacgttgt attgtcc 197

<210> 207
 <211> 413
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 207
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 ttgagccctc atccccaccc ctccaagccc tcatgcccac cacaccgtgt cccacattcc 120
 ccatcctccc ctgtctgtct cccatctcaa gtccaattcc aaggccagag ccctggcagc 180
 ttttctggga gacagcatga aaaggagggg agtggagatg gcagagatgg ggtggagcca 240
 gtgcgctgtg ggtcctgttg gcgtggtgat gtgggggcca atcctgaggc cagagggtca 300
 tcaccgtgat ctggaagccc acggggcccc tgggtagaaa cttgggaaga acaaaggggg 360
 aaaagaaacc agaacaggaa gaagacgagt aagcnttccg agtttcacga gat 413

<210> 208
 <211> 256
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 208
 tctgatantc atgtgaaaat tcttttcaaa gtaggtaaaa gccatcacta tatttcaaag 60
 aggtcacagt gacatcatat acaaaaggaa ccagattgaa aaagatattg ctgacatagc 120
 cagtagtgag attactaaag antaaacaga aatgccttg gaaattattt ttacaccggc 180
 ttgaattgaa acattaaagc aaaatgaaag ctgtaaggng ttcactagtt ttcccaaag 240
 cgttgtcaag tttatt 256

<210> 209
 <211> 331
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 209
 tttntttagg ngcaacaatc aagctctatt tttgtaatta aaaatgtatc caaagggaaa 60
 aaagaaacaa aaggaacaat atttgtactc tatgttgctg cagagagcag aactgcggag 120
 ggggtgctag tcccaagggg tggactgtgc tgtgctagtgc ccctaaatcc tgcaagcgcg 180
 gggttggggg ggcgggggag accgctgtcg ggggtcgtga gttccgggcc cttgtgtgca 240
 tgttcacgtc ctgtcattct tgccccagc tgagagagca gtagaggaaa ggcactacat 300
 ccaccagcct ttgcattctc ctcgagcac a 331

<210> 210
<211> 410
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 210
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atgtgggttt atgtattgta cttttaatca cttactgaga atatttcaa tttatattct 120
catcaggaaa atgtaaaaaa gatactgata tatattctat gatttttatg ccacaaacac 180
ccctgttatg agatcattta atagggaaaa caattatact gacatctctt gtccnattt 240
tccccattag gatataatcc atacaacttc aaggataggt tttaaaaata atccattcag 300
ggttattcnt aaaattttgc ccnataaaat tnggcccaagg tatggccctt ctgggtaatt 360
gcctaaaccc caatatttcc acccatataa aggcntgggtg gaccnccatt 410

<210> 211
<211> 349
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 211
ttggccaggc tgggtgtcaca actcttgacc tcaagtgan c taccaccctt ggctcccaa 60
agtgtctggga ttataggcgt gacacntggt gcccggccaa cattaatatt ttaatttagc 120
tactacagct tagagtagct gctatgggag tgtggccttt ttgattaaat actagctgat 180
caaccctaga atataaatnc ttgttttata acatttagat ttaaataaca atanggaatg 240
taaggcncca tgaagggcaa ggaatgcctt tttgttttgt tcaactgctgg ggtctaaaat 300
aatgcggggg ctcaaattt tggttgantg aggtaaatat ggctggact 349

<210> 212
<211> 355
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 212
aagttttcta nanttttaat gaagccaata aggcataata attgtgttct ggcagacatt 60
aagacatgct ttctcttacc aaagaaaatg gcacgtttta tcaaaatttg acaattcaga 120
gtaaagggtta ctgagattaa gcttcagagc accaacttaa acaaaacaac caaaaaattg 180
ttatccaacg tgggaaagag ggagcaagga accaagggca taaaggggga attaaatatg 240
tgttccntcc catctccaaa atccttttag gggaataggg agttctgggc cncctgtgag 300
gccaccacat tgcaccccc aacccccatt cccaggatct taaattttcg ggntg 355

<210> 213
 <211> 385
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 213
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 agacattttac ataaatttaa ttttggaag acctaggcaa agtatacatc attagactca 120
 atgggagaaa tactttatgg aagataaatt ctaacgggca cagccaaagt aacaaaaatg 180
 tacatttaca tacaactgat ccaaacagga agtaaaagcn ttntggaaaa anggancatg 240
 ttgcaantca tttccccctg gacaaangga gggntctgcg tgatttacag gcaattcaat 300
 tgttttccac ntttttaaag gcaagcctgg cttctacagg tattttantt ccttgggggg 360
 gagtttcacc tcntcttttt tcccc 385

<210> 214
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 214
 taganaattn nctgtaggtg ttcctttatt ttatcaaaaa tagtaatttt gtataattnt 60
 aaatcaggaa atctaagggg acatgttacc caatcacaaac agctaataaa atgcctccca 120
 ttacagacct agctttttta atattcaata acattcacag aattggcaag ttagtctcca 180
 aaaaattcta acagaaactg caactcaaaa agtgtgtcta tatcagagat ggtggttaact 240
 tcctcaaaga agttacatgc aaatnccag ggggtctcatg gtttacaagg tgac 294

<210> 215
 <211> 368
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 215
 taagagataa aattatttta ttggttcaaa taaactgaaa aaaatagaca tacaaatcac 60
 ttagttgtaa ttttaaagaa ttcctcaaac taaacttgaa ttttaagcata agcttatgct 120
 tacagattac tatttgctag cttactaatt attatttgaa ttaagcagta agaactaaaa 180
 ttttaagtttc ttaggtttta cagattgatt tgaagggcac gctgtcttgc taatattgaa 240
 ataaatttat ttcttaaaaa ttattatttt actgggggta tgtcagaggc agngctgtg 300
 gttcttgagg gnagggncaa gtttcttctc agggatcntc caaatgaag gctctcaccg 360

ttctgccc

368

<210> 216
<211> 235
<212> DNA
<213> Homo sapiens

<400> 216
gacttacagg ggaactatat atgtatatgt atattttatt aaacacccat ctgcactatc 60
agtattgcac taatgtggaa ttgaaagac tattttgctg atactgtata tatgcgcac 120
attcctgatt agattgttgt aaagacaatc tgaaagatct aaggttttaa aataatttgg 180
tttgaaaata tacagttgtc ttgaaggaat tgctgtgata catgaaaaaa aaaaa 235

<210> 217
<211> 195
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 217
gccaaagcaat caagcaaaac acaagaccaa tagaattagt agacagaagc cttgggggaca 60
atggcagtgc ccttcctgag taagacatga atgccatctg gnggntccat ttgaaactac 120
agtgcagtaa ccaaagancc taatgttttc aagcataaag gnacttttng tgaacaggtg 180
ggcaacacag gcagg 195

<210> 218
<211> 343
<212> DNA
<213> Homo sapiens

<400> 218
taatgggttaa ggaggaaggt ttattggctt caattcccca gttgatgttc aacactttat 60
ttagttctca tttggatttt aaacatttgc ttgacaaata atttcccatc aatttccatt 120
tctttgaaa gctcccacgt gtaatttatt tttaacatct ctgaagagca gaattaatga 180
tatttcctag ctgttgctcc agatcatgta gggtagagga ggctgaaaac tgctacaagg 240
gaaggcatct gtattgtttc aaaacgtcag gacggtagcg gatactcttt ccagagcgac 300
gagggtcaaa tcccttcatt tatttttttc aaaagggtaa aac 343

<210> 219
<211> 312
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> n=a,t,g or c

<400> 219
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 gggaattgaa aattagtaga aaaattccaa ggggaccagt tagccacaac aaagaatggg 120
 gttcagggaa cttcttaggg atgtatcttc ccttcaatac aggtagagga gcagcatcag 180
 aagcagggct ttggagagag gcatagaaga gaatcacctt ctctggccc acgcaagcta 240
 cctgggtgta cctntcaagt tcagggccag cttcttggtc cttccccgct cttggtagat 300
 gtaaaagggt tc 312

<210> 220
 <211> 282
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 220
 agactttatt caaagaccac gggggtagcg gtgcaggaag gggaggagg gctgggggga 60
 ggccaagnaa ngaagcatgn caccgaggtc cagcttcacg gtatttgag gtagcacggt 120
 gtcacagaa agcaggaact tgtccagga ggcgtcacc aggggtgaact cggcggggag 180
 gtgggcgcca gggtcaccag caggcagtg cttaggagct tgaagttgac cgggtccacc 240
 caagcttggt cgcgtgccag gtcttcaggg ngacangcgt tg 282

<210> 221
 <211> 493
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> n=a,t,g or c

<400> 221
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 anaggtntgg gtaggagctg agtggccact ggggtgaagg gagacagagg aggctntgcc 120
 agcaggntcc tatccagatg atacatgaga tggaggctcc tcagccacac tccaggagg 180
 gtgggggtggc aagggggatt cagggataat ggcattaata atacaagtgg taaacaaata 240
 accaagaggn tctggctggg tacgntacac aaaanttagc agtaagagtc cgtgctttca 300
 cattcctatc agacagatct gagttcaaat cctgtatgtn tagcaggggtg aggtatctgc 360
 tttctttcag agcccatggg tgcacatctc tgagcctagt tacaacagtt ggcacatagg 420
 tnggtgacaa ggagggcagc tctttgatcc ctgnttgctt ccacagcaca gagagttaag 480
 tatggctggt nta 493

<210> 222
 <211> 305
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<223> n=a,t,g or c

<400> 222

ttaattatng	atattccccc	tcaccgccct	cagggancgg	gagaagtcac	acgaccatag	60
ggagcttgga	cttgggtggc	gtcacgggtg	tggcagacga	gggtctttcc	aggaaccct	120
tgctagaatc	agccctcata	caagtgtgct	cagagatccc	aggagcgatg	gcatcctccc	180
gaagtcacta	cccccatatg	tctccttggg	cttcttcccc	ctctctttct	ggaacctgac	240
caggcagaac	gcagcaactg	ncagcaacag	cacgcccagg	gagcacccca	atcagagntc	300
cggcc						305

<210> 223

<211> 263

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 223

cactcaataa	ttttaattgt	cctaaccttc	aatttcactg	attcccttct	tctgcctgcc	60
aaatctgcct	ctgaaaccct	ctattgaatt	tttcatttta	gttactgtac	ttttcagctc	120
cagaattcct	tttcattttc	ttttcaggnt	ttctatctct	ttactgttat	ttccattttg	180
ttaatacatt	ttgtcttgat	gttccccaca	tactccttta	ggggctttca	atgtctttaa	240
cacagntggg	tttaagggct	ttg				263

<210> 224

<211> 2263

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> n=a,t,g or c

<400> 224

gagccggacg	tgtgcgcgaa	gatggcgggc	cggagcatgc	aagcggcaag	atgtcctaca	60
gatgaattat	ctttaaccaa	ttgttcagtt	gtgaatgaaa	aggatttcca	gtctggccag	120
catgtgattg	tgaggacctc	tcccaatcac	aggtacacat	ttacactgaa	gacacatcca	180
tcggtgggtc	cagggagcat	tgcattcagt	ttacctcaga	gaaaatgggc	tgggctttct	240
attgggcaag	aaatagaagt	ctccttatat	acatttgaca	aagccaaaca	gtgtattggc	300
acaatgacca	tcgagattga	tttcctgcag	aaaaaaagca	atgactccaa	cccttatgac	360
accgacaaga	tggcagcaga	atattattcag	caattcaaca	accaggccta	ctcagtggga	420
caacagcttg	tcttttagctt	caatgaaaag	ctttttggct	tactgggtgaa	ggacattgaa	480
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ggcaagatgt	tgaatgcaag	agagcccaaa	gtggtcaatg	ggccagaaat	ccttaacaaa	900
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aggaggcttg	gtgctaacag	tggtttgac	atcatcatct	ttgatgaaat	tgatgccatc	1020
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caagtacaga	gaggagactt	ccttgcttct	ttggagaatg	atatcaaacc	agcctttggc	1500
acaaaccaag	aagattatgc	aagttacatt	atgaacggta	tcatcaaagt	gggtgacca	1560
gttactcgag	ttctagatga	tggggagctg	ctggtgcagc	agactaagaa	cagtgaccgc	1620
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cctcctcagg	gccgcaagct	tcttatcatt	gggaccacta	gccgcaaaga	tgctcttcag	1980
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attgcacagc	aagtcaaagg	gaagaaggtc	tggataggaa	tcaagaagtt	actaatgctg	2160
atcgagatgt	ccctacagat	ggatcctgaa	taccgtgtga	gaaaattctt	ggccctctta	2220
agagaagaag	gagctagccc	ccttgatttt	gattgaaaat	gaa		2263

<210> 225

<211> 2895

<212> DNA

<213> Homo sapiens

<400> 225

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aggcttcggg	ggcgcaaaact	aatgggactg	gctcgctcgg	cagcatctcc	ccgctcttct	120
aagtacactg	agcagggccc	gcgctgaagt	agaagctgtc	cgggggcgcg	tagcccgagg	180
tcccagtggt	gcccggagga	acggagcccc	tgccagggcg	gcccagtcgg	gagcccgggg	240
accgagcttg	tgctgtgggg	aaacccccac	ttcttccaag	ggacagcgat	cccgggacgg	300
tcgaggcgct	ggggcggtca	ccgagacctc	tgcggaaga	ccccgtcggg	gagagggcgc	360
gcagccccga	agcgtctcgg	gaagtcgagc	ggaatcgggc	gggatcacc	gggggcgcag	420
agcccccgct	gcgcctcgtg	cggcagcgga	gagcccagga	gaacgagccc	tcgggggccc	480
aagcccatgc	ccgggttggg	ggcggtgccc	cagtgaatcc	tccgtggcgg	ccgggaggag	540
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cactgttttt	aatgcttttg	tgttcatttt	ttagctgtca	actcattttc	atctgttttt	2160
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<210> 226
 <211> 2117
 <212> DNA
 <213> Homo sapiens

<400> 226						
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gggagaagtc	gctgttcgct	ctgcgagtgg	ctcgccagcg	aagaccccg	ctgcgcccc	120
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ggctctacga	ctgtgatggc	ggcggccg	gtgatggg	cggcgagat	cctctgtgg	240
tggtgaattg	taacaagaga	gagaactctg	gctgcctgag	agggcatgac	tctagtcaca	300
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tctgaacaga	gcatttctat	agcagtgtca	catgttaata	cttccaaggc	aggtttgccc	420
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<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 237

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<211> 1592

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<213> Homo sapiens

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<211> 600

<212> DNA

<213> Homo sapiens

<400> 248

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<211> 1475
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 <213> Homo sapiens

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 <211> 1383
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 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 253

<211> 2088

<212> DNA

<213> Homo sapiens

<400> 253

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 <211> 1654
 <212> DNA
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 <212> DNA
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<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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<211> 1716

<212> DNA

<213> Homo sapiens

<400> 261

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<210> 262

<211> 2041

<212> DNA

<213> Homo sapiens

<400> 262

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<210> 263
 <211> 886
 <212> DNA
 <213> Homo sapiens

<220>
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 <223> n=a,t,g or c

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<210> 264
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 <212> DNA
 <213> Homo sapiens

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<211> 2333

<212> DNA

<213> Homo sapiens

<400> 265

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<211> 4040

<212> DNA

<213> Homo sapiens

<400> 267

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<211> 1208

<212> DNA

<213> Homo sapiens

<400> 268

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 <213> Homo sapiens

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